

originally submitted. Said second set of Figs. 1, 10-12 is being separately filed before the Official Draftsperson.

In the Specification:

At page 19, line 21, delete "(  $|i_a - i_b|$  ) -  $|i_c - i_d|$  )" and substitute therefore  $- - ( |i_a - i_b| - |i_c - i_d| ) - -$ . At page 19, line 25, delete "(  $|i_a - i_b|$  ) -  $|i_c - i_d|$  )" and substitute therefore  $- - ( |i_a - i_b| + |i_c - i_d| ) - -$ . An amended copy showing strike-outs and add-ins of twice page 19 and a separate clean copy of twice page 19 are attached.

In the Claims:

Amend the claims 1-24 and add new claims 25-26 as follows.

1.(Twice-Amended) An apparatus for detecting the phase and amplitude of electromagnetic waves, ~~preferably in the optical and in the near infrared and ultraviolet ranges~~, comprising at least two modulation photogates (1, 2) which are sensitive to the electromagnetic waves (photosensitive), and accumulation gates (4, 5) which are associated with the modulation photogates, ~~said accumulation gates (4,5) being neither photosensitive nor shaded~~, and electrical connections for the modulation photogates (1, 2) and the accumulation gates (4, 5), so that the latter can be connected to a reading-out device, and the former can be connected to a modulating device which increases or reduces the potential of the modulation photogates (1, 2) relative to each other and relative to [the] ~~a preferably constant~~ potential of the accumulation gates (4, 5) corresponding to a desired modulation function, characterised in that there are provided a plurality of modulation photogates (1, 2) and accumulation gates (4, 5) ~~in the form being formed~~ of long narrow parallel strips which group-wise form a PMD-pixel, wherein the accumulation gates are ~~in the form of~~ reading-out diodes with ~~preferably in each case the cathode of each diode being a~~ as the reading-out electrode.